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PTO-1390 (Rev. 12-2004)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

ATTORNEY'S DOCKET NUMBER VTU-105883-026

CON	CERNING A SUBMISSIO	10/520222						
	IONAL APPLICATION NO. 2003/020729	INTERNATIONAL FILING DATE 02 July 2003 (02.07.2003)	PRIORITY DATE CLAIMED 02 July 2002 (02.07.02)					
	NVENTION .	02 001) 2000 (02.01.2000)	or only 2002 (02.01.02)					
	or Improving Engine Performa	nce and Reducing Emissions						
APPLICANT(S) FOR DO/EO/US James C. Juranitch and Robert D. Olschefski								
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:								
1. X T	This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.							
2 🔲 T	This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.							
	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.							
	The US has been elected (Article 31).							
5. LXI	A copy of the International Application as filed (35 U.S.C. 371(c)(2))							
		only if not communicated by the Internation	nal Bureau).					
•	b. has been communicated by							
		cation was filed in the United States Receiv						
6	` `	e International Application as filed (35.U.S.C	3. 3/1(c)(2)).					
	a. L. is attached hereto.	4-4						
7 [X		ted under 35 U.S.C. 154(d)(4).	(35 H C C 374(a)(3))					
لبها ,/	· ——	mational Application under PCT Article 19	· 					
		red only if not communicated by the Interna	uonan bureau).					
ı		by the International Bureau. ever; the time limit for making such amendr	nents has NOT expired					
	d. X have not been made and v							
a ³		e amendments to the claims under PCT Ar	ticle 19 (35 U.S.C. 371(c)(3)).					
э. 🔲	An oath or declaration of the inventor							
10.	An English language translation of the Article 36 (35 U.S.C. 371(c)(5)).	annexes of the International Preliminary E	examination Report under PCT					
Items	11 to 20 below concern document(s) or information included:						
11.	An Information Disclosure Statement	under 37 CFR 1.97 and 1.98.						
12.	An assignment document for recording	g. A separate cover sheet in compliance w	ith 37 CFR 3.28 and 3.31 is included.					
13. 🔯	A preliminary amendment.							
14.	An Application Data Sheet under 37 0	CFR 1.76.						
15.	A substitute specification.							
16. 🔲	A power of attorney and/or change of	address letter.	·					
17. 🔲	A computer-readable form of the sequ	uence listing in accordance with PCT Rule	13 <i>te</i> r.2 and 37 CFR 1.821- 1.825.					
18.	A second copy of the published interr	national Application under 35 U.S.C. 154(d)	(4).					
19.	A second copy of the English language	ge translation of the international application	n under 35 U.S.C. 154(d)(4).					
20. 🔀	Other items or information: Cert	t. of Ex. Mail - Label ER75937576	7US; postcard receipt					

This collection of information is required by 37 CFR.1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the complete dofform to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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LICATION NO. (If known see 37 CEP 1.5)

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO.						ATTORNEY'S DOCKET NUMBER			
10/52022 PCT/US2003/020729						VTU-10588-026			
21. The following fees are submitted:						Applicant use	Office use only		
X a) Basic national fee\$300.00							\$300.00	.\$	
b) Examination fee						\$			
C) Search fee							\$		
•••		AL OF ABOVE CAL					\$1000.00 II	\$ 1,000.00	
Additional for	ee for	specification and d	rawings fil	led in p	paper over 100 sheets (excludii	ng sequence		
listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.									
Total Sheets	Extr				of each additional 50 or fraction RATE f (round up to a whole number)				
- 100 =	_	/50 =	·.				x \$250.00	s —	
0	20.00	6			- Indeed them 20				
		for furnishing the or 7 CFR 1.492(e)).	ath or dec	laration	n later than 30 months t	rom the	earliest	^{\$} 130.00	
CLAIMS		NUMBER FIL	BER FILED NUMBER EXTRA			RATE∷	\$		
Total claims		49	49 - 20 = 29		×	\$50.00	\$1,450.00		
Independent clai	ims	4	- 3 =	1		×	\$200.00	\$ 200,00	
MULTIPLE DEPI	ENDE	NT CLAIM(S) (if ap	plicable)			+	\$360.08 · · ·	\$. · ~~	
					TOTAL OF ABOVE	CALC	ULATIONS =	\$2,780.00	
Applicant c by 1/4.	laims :	small entity status.	See.37.C	FR 1.2	7. The fees indicated a	bove ar	re reduced ::	^{\$} 1,390.00	
					_	:	SUBTOTAL =	\$1,390.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(t)).							\$		
					TOTA	LNATI	ONAL.FEE =	\$1,390.00	
Fee for recording the enclosed assignment (37.CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property						. \$::			
TOTAL FEES ENCLOSED =							\$ 1,390.00		
Amount to be refunded:							be refunded:		\$
					Ал	ount to	o be charged.		\$
a. X A chec	ck in th	e amount of \$ 1,3	90.00		to cover the ab	ove fee	s is enclosed.		
b. Please charge my Deposit Account No in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.									
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-07 20. A duplicate copy of this sheet is enclosed.									
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.									
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.									
			#-PG	,					
SEND ALL CORRESPONDENCE TO:									
Rohm & Monsanto, PLC SIGNATURE							· X/A) /		
12 Rathbone Place Grosse Pointe, MI 48230 Benita J. Rot									
NAME NAME									
28,664									
	REGISTRATION NUMBER							`	

Att'y. Docket No.: VTU-105883-00026

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S)	:	James C. Juranitch and Robert D. Olschefski)
SERIAL NO.	:	to be assigned))
INT'L. SER. NO.	:	PCT/US2003/20729))
FILED	:	03 January 2005 (Ex. Mail)))
INT'L. FILE DATE	:	02 July 2003))
FOR	:	System for Improving Engine Performance And Reducing Emissions)))

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

CERTIFICATE OF MAILING

 $\mathbb{B}\mathbb{Y}$

EXPRESS MAIL

Express Mail Label Number ER 759375767 US

Date of Deposit: 03 January 2005

I hereby certify that a Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning A Submission Under 35 U.S.C. 371 (Form-1390); Preliminary Amendment; and a check in the amount of \$1,390.00 for the filing fee for entry into the US national stage under 35 USC 371are being deposited under 37 CFR 1.10 as Express Mail Post Office to Addressee on the date indicated hereinabove and addressed to the Mail Stop PCT US DO/EO, Assistant Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Benita J. Rohm, Reg. No. 28,664

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